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			USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	JSPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	JSPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	JSPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
5/2/04	Databases	USPAT; EPO; JPO		_	USPAT; US-PGPUB	USPAT; US-PGPUB	USPAT; US-PGPUB	USPAT; US-PGPUB	USPAT; US-PGPUB	USPAT; US-PGPUB	USPAT; US-PGPUB	USPAT; US-PGPUB
EAST SEARCH		8 buffer\$ near10 (logic or network\$) ((computer adi program) or code) and (generat\$5 or creat\$5) and (flowchart or	(flow adj chart)) (flow nuter adj program) or	(flow adj chart))		t 3 and @AD<=19980706	4 and 717/\$.ccls.	(data near3 flowchart) and (control near3 flowchart)	(data near2 flowchart) and (state near2 flowchart)	controller same (float\$5 and conver\$5 and integer)	8 and @ad<=19980706	controller same (integer adj conversion)
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Results of search set L5:

US 6718540 B1	Data processing system and method for storing data in a communication network 20040406 Object oriented programming system with objects for dynamically connecting	20040406	717/148
US 6694506 B1	functioning programming objects with objects for general purpose operations	20040217	717/108
US 6631518 B1	Generating and utilizing organized profile information	20031007	717/158
US 6618854 B1	Remotely accessible integrated debug environment	20030909	717/124
US 6584495 B1	Unshared scratch space	20030624	709/217
US 6526569 B1	Method for compiling a procedural program to an object class definition	20030225	717/140
US 6513156 B2	Interpreting functions utilizing a hybrid of virtual and native machine instructions	20030128	717/151
US 6513154 B1	System and method for testing of computer programs in programming effort	20030128	717/101
US 6507855 B1	Method and apparatus for extracting data from files	20030114	715/513
US 6496870 B1	System, method and article of manufacture for collaboration with an application	20021217	719/316
US 6481005 B1	Event correlation feature for a telephone network operations support system	20021112	717/100
US 6477471 B1	Product defect predictive engine	20021105	702/34
US 6460175 B1	Program product for modular, parallel, remote software installation with repeatable, externally-invocable steps	20021001	717/103

US 6427231 B1 US 6389481 B1	System and method for multiple entry point access to an object Automatic program documentation	20020730 20020514	717/116 719/310
US 6385618 B1	Integrating both modifications to an object model and modifications to a database into source code by an object-relational mapping tool	20020507	707/103Y
US 6370681 B1	COMPUTER SYSTEM AND COMPUTER IMPLEMENTED PROCESS FOR REPRESENTING SOFTWARE SYSTEM DESCRIPTIONS AND FOR GENERATING EXECUTABLE COMPUTER PROGRAMS AND COMPUTER SYSTEM CONFIGURATIONS FROM SOFTWARE SYSTEM DESCRIPTIONS	20020409	717/110
US 6366917 B1	Method of modifying a populated database structure by modifying metadata describing the database structure	20020402	707/100
US 6343308 B1	Systems, methods and computer programs for mixing unrefert versions of Java classes	20020129	718/1
US 6341368 B1	Method and systems for creating multi-instanced software with a preprocessor	20020122	717/100
US 6339840 B1	Apparatus and method for parallelizing legacy computer code	20020115	717/149
US 6332214 B1 US 6332212 B1	Accurate invalidation profiling for cost effective data speculation Capturing and displaying computer program execution timing	20011218 20011218	717/128
US 6301641 B1	Method for reducing the frequency of cache misses in a computer	20011009	711/118
03 0708070 00	Medica to optimizing sava periormance using precomplied code	11601007	2
US 6266809 B1	Methods, systems and computer program products for secure firmware updates Computer program product for enabling the construction of dialogs for commands	20010724	717/173
US 6266808 B1	and templates Method annaratus for describing an interface definition language-defined	20010724	717/106
US 6263485 B1	interface, operation, and data type Compile apparatus, compile method and compiler-readable medium storing	20010717	717/114
US 6256782 B1	compiler	20010703	717/151
US 6243857 B1	Unidows-based flowcharting and code generation system	20010605	717/111
115 6237136 B1	System and method for automatically creating source code example files for an application program in a plurality of programming languages.	20010522	717/110
US 6219834 B1	Extensible compiler and method	20010417	717/145
US 6219826 B1	Visualizing execution patterns in object-oriented programs	20010417	717/116
	Generating a natural language specification of a computer program by generating an intermediate expression table based on a flow chart from analyzed syntax of		
US 6212677 B1	the program Method and apparatus for identifying indirect messaging relationships between	20010403	717/143
US 6205576 B1	software entities Commehensive redundant load elimination for architectures supporting control	20010320	717/105
US 6202204 B1 US 6186677 B1	and data speculation Byte code instrumentation	20010313 20010213	717/151 717/118

US 6179490 B1 US 6175948 B1	Method and apparatus for creating a flowchart using a programmed computer which will automatically result in a structured program Method and apparatus for a waveform compiler	20010130 20010116	717/109 716/7
US 6173440 B1	Method and apparatus for debugging, verifying and validating computer software Processor which returns from a subroutine at high speed and a program translating apparatus which generates machine programs that makes a high-	20010109	717/130
US 6170998 B1	speed return from a subroutine Language processing apparatus for converting source program into object	20010109	717/154
US 6163882 A US 6158048 A	program Program Method for eliminating common subexpressions from java byte codes Efficient use of the base register autoing rement feature of memory access	20001219 20001205	717/154 717/118
US 6151705 A	instructions Object oriented distributed programming system for computer controlled networks	20001121	717/153
US 6151700 A	Version	20001121	717/107
US 6145124 A	Software optimization system	20001107	717/153
US 6118940 A	Sale to execute vermication of software Method and apparatus for benchmarking byte code seguences	20001003	717/146
US 6113649 A	Object representation of program and script components	20000002	717/113
US 6106571 A	Relocatable instrumentation tags for testing and debugging a computer program	20000822	717/131
US 6099585 A	System and method for streamlined execution of instructions	20000808	717/154
US 6096095 A	Producing persistent representations of complex data structures	20000801	717/107
US 6092147 A	Virtual machine with securely distributed bytecode verification	20000718	711/6
US 6091895 A	Object oriented central maintenance for programs and scripts	20000718	717/114
US 6077315 A	Compliing system and method for partially reconfigurable computing	20000620	717/157
US 50/1315 A	Automated validation and verification of computer software	20000606	717/126
US 606/639 A	inetriod for integrating automated sortware testing with sortware development lava native interface code generator	20000523	714/38
US 6064819 A	Control flow and memory management optimization	20000323	717/156
US 6064818 A	Straight path optimization for compilers	20000516	717/159
	Embedding multiple (non embedded) high level languages into an assembler		
US 6061519 A	code Data structure and method for dynamic type resolution using object-oriented	20000509	717/142
US 6052526 A	programming language representation of information object sets	20000418	717/136
US 6049663 A	Method and facility for uninstalling a computer program package	20000411	703/23
US 6047123 A	Methods for recording a compilable graphics call trace	20000404	717/127
US 6044223 A	Object code allocation in multiple systems	20000328	717/154
US 6044221 A US 6044219 A	Optimizing code based on resource sensitive hoisting and sinking Date logic generator	20000328 20000328	717/151 717/106
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717/107	717/154	717/155	717/141	717/143	717/131	717/154	717/158	717/108	717/148		717/103	717/137	717/106	717/104	717/163	707/203	715/527	717/158	717/109	717/158
20000328	20000314	20000307	20000307	20000229	20000222	20000222	20000208	20000208	20000201		20000125	20000111	20000104	20000104	19991214	19991214	19991214	19991207	19991207 19991116	19991109
System, method and article of manufacture for creating a live application or applet development environment	System for another data of some of the processes Compiler for converting source process into object process.	with pommit conditions to a constant of the conditions of the cond	Method and apparatus for converting executable computer programs in a heterogeneous computing environment.	language to another	Method and apparatus for analyzing computer code using weakest precondition	Method of compiling a computer program for performing parallel image processing 20000222	Optimized variable allocation method, optimized variable allocation system and computer-readable memory containing an optimized variable allocation program	metapata menangan men	interpreter generation and implementation utilizing interpreter states and register caching	Tool-independent system for application building in an object oriented development environment with data stored in repository in OMG compliant UML	representation	Language processing unit and a language processing method to translate a source program and generate an object module file Methods systems and compliter program products for generating client/sequer			Apparatus and method for demand loading a dynamic link library Systems, methods and computer programs products for storing a new version of an Frivy I ibrary file in a teamconnection object oriented programming	environment Method for performing common subsystession elimination on a rook N statio	single assignment language			Dynamically switching statically bound function calls to dynamically bound function calls without recompilation
US 6044218 A	US 6038397 A	US 6035122 A	US 6035120 A	US 6031993 A	US 6029002 A	US 6029001 A	US 6023583 A	US 6023579 A	US 6021273 A		US 6018627 A	US 6014519 A	US 6011918 A	US 6011917 A	US 6003095 A	US 6003042 A	US 6002879 A	US 5999736 A	US 5987249 A	US 5983021 A

717/104	717/178	717/141 717/124	717/143	717/158	717/105	717/151 717/147	717/130	717/108	712/239	717/124	717/141	713/100 717/140 717/107	717/105 345/764	717/156
19991102	19991026	19991026 19991026	19991019	19991019 19991012	19991012	19990928 19990928	19990928	19990914	19990907	19990831	19990831 19990817	19990817 19990803 19990803	19990803 19990720	19990713
Object-oriented code generation system and method Method and apparatus for performing single-function software operations on a	server processor for a target of one or more processors in a network of processors	Method for translating graphrical user interrace (GOI) resource data into native java code Method for state-based oriented testing	System, method, and computer program product for scoping operating system semanticis in a computing environment supporting multi-enclave processes Data processing system having a trace mechanism and method therefor	Online programming changes for industrial togic controllers Method and apparatus for dynamically optimizing an executable computer program using input data	Graphical code generation wizard for automatically creating graphical programs	Assembler device and its assembling method for use in a microcomputer or other computer system System to transition an enterprise to a distributed infrastructure	Software profiler with runtime control to enable and disable instrumented executable	Object oriented programming system with displayable natural language documentation through dual translation of program source code	Programmable branch prediction system and method for inserting prediction operation which is independent of execution of program code Method and system in a data processing system for association of source code	instructions with an optimized listing of object code instructions	Method for selectively and incrementally displaying the results of preprocessing Tracker class for object-oriented programming environments System for extending functionality of a digital BOM using BAMPOM in the standard functionality of a digital BOM using BAMPOM.	Observing reversioning to reconstruction as a university of a computing of the and method for creating software for telecommunication switches	Mock-up method and mock-up control system for displaying pseudo operation Control program tracking and display system	Optimization apparatus which removes transfer instructions by a global analysis of equivalence relations Method and system for constructing a program including out-of-order threads and processor and method for executing threads out of order.
US 5978581 A	US 5974258 A	US 5974256 A US 5974255 A	US 5970250 A US 5970246 A	US 5966537 A	US 5966532 A	US 5960203 A US 5960200 A	US 5960198 A	US 5953526 A	US 5949995 A	US 5946493 A	US 5946488 A US 5940616 A	US 5938766 A US 5933642 A US 5933636 A	US 5933634 A US 5926176 A	US 5923883 A

System, method and article of manufacture for creating hierarchical folder components for use in a java application or applet Query selection for a program development environment Dynamic multi-lingual software module system
Dynamic multi-lingual software module system Executable flowchart Test support tool system and method
Method for mapping types stored in a model in an object-oriented repository to language constructs for A C binding for the repository
of loop
n generat
Intuitive technique for visually creating resource files Method and apparatus for providing updated firmware in a data processing
•
Instruction branching method and a processor Automatically generating source code for relating a dialog interface with a
business object in a computing application
or generati
ō
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r reusing cu
Visually oriented computer implemented application development system utilizing
and multiple vi
Code generator for applications in distributed object systems
Method for generating OLE automation and IDL interfaces from metadata
Language processor and language processing method to generate object programs by compiling source programs
metriod of, system for, and computer program product for providing infined nested array constructors using normalized counters
System, method and article of manufacture for providing dynamic user editing of object oriented components used in an object oriented applet or application Efficient 32-bit based case table support for 64-bit architectures
System for defeting redundant instructions from high level language source code containing in-line assembly instructions
computer based information access method and apparant manipulation of programming language-specific data files High-level loop fusion

US 5699310 A US 5697788 A	Method and apparatus for a fully inherited object-oriented computer system for generating source code from user-entered specifications Algorithm training system	19971216 19971216	717/108 434/118
IIS EGOAGUE A	Program translator with selective data value amendment and processor with data	4004	1
US 5689712 A	Profile-based optimizing postprocessors for data references Method and apparatus for consecuting data dependencing in postume modeling	19971118	717/130
US 5689711 A	systems	19971118	717/105
	System and method for enabling a compiled computer program to invoke an		
US 5675804 A	interpretive computer program	19971007	717/139
US 5675801 A	Object oriented system and method for generating target language code	19971007	717/108
IIC KEEK100 A	Optimizing compiler with static prediction of branch probability, branch frequency	2001	141
03 3033 122 A	and include lieducericy. Software understanding aid for generating and displaying simiplified code flow	1997,0805	761//17
US 5652899 A	paths with respect to target code statements	19970729	715/512
	Alternate execution and interpretation of computer program having code at		
	unknown locations due to transfer instructions having computed destination		
US 5652889 A	addresses	19970729	717/144
	Translating, executing, and re-translating a computer program for finding and		
US 5649203 A	translating program code at unknown program addresses	19970715	717/156
US 5634114 A	Dynamic link library version negotiation	19970527	717/170
US 5625822 A	Using sorting to do matchup in smart recompilation	19970429	717/145
US 5619702 A	Method and apparatus for programming registers using simplified commands	19970408	717/151
	Method and apparatus for inserting computer code into a high level language		
	(HLL) software model of an electrical circuit to monitor test coverage of the		
US 5604895 A	software model when exposed to test inputs	19970218	703/13
US 5596732 A	Method of optimizing instruction sequence of compiler	19970121	717/155
US 5594904 A	Tracing with keys and locks	19970114	717/124
	Method and apparatus for generating platform-standard object files containing		
US 5590331 A	machine-independent code	19961231	717/144
US 5590330 A	Method and system for providing a testing facility in a program development tool	19961231	717/126
	System and method for maintaining codes among distributed databases using a		
US 5581749 A	global database	19961203	707/10
US 5561801 A	System and method for multilevel promotion	19961001	717/149
	Compiling a source code vector instruction by generating a subgrid loop for		
US 5551039 A	iteratively processing array elements by plural processing elements	19960827	717/150
4 0000	Method and apparatus for vectorizing the contents of a read only memory device		
0.5 5046566 A	without intotalying underlying source code Method and apparatus for improving performance of out of segmence load	19960813	77///
US 5542075 A	operations in a computer system	19960730	717/151
US 5535392 A	Using hint generation to cause portions of object files to remain the same	19960709	717/145

717/140	707/102	717/162 717/149	717/136	717/108	717/109	717/170	717/155	715/531	717/128	717/156	717/103	717/145	717/149	717/151	717/104	717/142	717/106	717/105		717/138		717/146	717/109	717/149	717/107	717/136	717/154
19960709	19960709	19960521 19960507	19960409	19960312	19960305	19960102	19960102	19950919	19950912	19950912	10050820	19950829	19950725	19950627	19950509	19950425	19950418	19950314		19950214		19950131	19950131	19950110	19950110	19941122	19941011
System and methods for optimizing object-oriented compilations Method and apparatus for automatically department database definitions of indirect	facts from entity-relationship diagrams Method and annaratus of incrementally linking components of a modeled	_	code at unknown locations due to execution transfer instructions naving computed destination addresses	metriod and apparatus for automatic generation of object offented code for mapping relational data to objects Method and apparatus for more efficient function synchronization in a data flow	program	Method and apparatus for patching code residing on a read only memory device	System and methods for optimizing object-oriented compilations	Method for generating documentation for computer software	Use of stack depth to identify machine code mistakes Amazatus for detection possibility of parallel processing and mathod thereof and	Apparatus for automatically preparatus utilized therein Apparatus for automatically preparatus a flowchart by analyzing a source program	Apparatus for automatically prepariting a flowerian by analyzing a source program and a list of itimp commands	Hint generation in smart recompilation	Method and apparatus for compiling a program incending a do-statement	Branch resolution via backward symbolic execution	Design method and apparatus of computer program for business processing	System and method for analyzing programmed equations	Method for unified design documentation	Method for visual programming with aid of animation	Method and apparatus for developing scripts that access mainframe resources that can be executed on various computer systems having different interface	languages without modification	Method for a two pass compiler with the saving parse states from first to second	pass	Apparatus for generating programs from inputted flowchart images	System and method for compiling a source code supporting data parallel variables 19950110	Apparatus for automatically generating programs	Smart recompilation of performing matchup/difference after code generation Compiler for performing incremental live variable analysis for data-parallel	programs
US 5535391 A	US 5535325 A	US 5519866 A US 5515535 A	US 5507030 A	US 5499371 A	US 5497500 A	US 5481713 A	US 5481708 A	US 5452206 A	US 5450575 A	US 5450554 A	11S 5446911 A	US 5446899 A	US 5437035 A	US 5428786 A	US 5414847 A	US 5410701 A	5408667	US 5398313 A		US 5390314 A		US 5386570 A	US 5386508 A	US 5381550 A	US 5381548 A	US 5367683 A	US 5355494 A

717/151	717/151	717/129 717/158	717/162	717/142	717/149	717/137	717/145	717/109	717/107		717/138	717/141	717/152	717/141		717/104	717/141		717/109	717/104	717/105	717/107		717/160	700/86		717/140	561//1/	717/175
19941011	19940913	19940531 19940426	19940412	19940215	19940111	19930928	19930720	19930216	19921020		19920922	19920825	19920721	19910924		19900911	19900410		19890822	19890523	19890516	19890516		19890131	19890103		19881213	19880809	19880209
System for compiling parallel communications instructions including their embedded data transfer information	System and metricol for optimizing and generating computer-based code in a parallel processing environment. Attendate and iterative analysis of computer programs for locating translatable.	code by resolving callbacks and other conflicting mutual dependencies Automated method for adding hooks to software	Object code processing system for forming an executable image by tranforming LISP-type object files into a format compatible for storage by a linker Identifying plausible variable length machine code of selecting address in purposition transfer.	paths	System and method for compiling a source code supporting data parallel variables 19940111 Apparatus and method enabling a compiled program to exactly recreate its source	epoo	Method of recompiling a program by using result of previous compilation	Graphics system for automatic computer code generation	System for numerical description of computer program logic	Method for transferring arguments between object programs by switching address	modes according to mode identifying flag	APL-to-Fortran translators	Method for improved code generation in reduced instruction set computers	System for processing data to facilitate the creation of executable images	System and method of generating a source program from inputted schematic	information	Multilanguage software integration through preprocessing	Computer based workstation for development of graphic representation of	computer programs	System for numerical description of computer program logic	Program generator	Method of generating a source program from inputted schematic information	Method for improving the efficiency of arithmetic code generation in an optimizing	compiler using the technique of reassociation	Multirate real time control system code generator	System and method for generating an object module in a first format and then	converting the first format into a format which is loadable into a selected computer 19881213	Method for operating short form instructions in an optimizing compiler. Method for operating a local terminal to execute a downloaded application.	program
US 5355492 A	US 5347654 A	US 5317740 A US 5307498 A	US 5303380 A	US 5287490 A	US 5278986 A	US 5249275 A	US 5230050 A		US 5157600 A		US 5150474 A	US 5142681 A	US 5133072 A	US 5051893 A		US 4956773 A	US 4916610 A		US 4860204 A	US 4833641 A	US 4831580 A	US 4831525 A		US 4802091 A	US 4796179 A		US 4791558 A	US 4/03233 A	US 4724521 A

US 4432050 A

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